

Referenssida med Java-klasser för Programmeringsteknik I

Arrayer

Konstant

`int length`

Klassen Object

Metoder

```
boolean equals(Object o)
int hashCode()
String toString()
```

Klassen String

Metoder

```
char charAt(int index)
boolean equals(Object o)
int compareTo(String str)
int length()
```

Klassen ArrayList

Konstruktör:

```
ArrayList<E>()
```

Exempel på användning:

```
ArrayList<Integer> ex = new ArrayList<Integer>();
```

Metoder

```
int size()
boolean equals(Object o)
boolean add(E e)
boolean add(int index, E element)
E get(int index)
E remove(int index)
boolean remove(Object o)
E set(int index, E element)
void clear()
```

Klassen Scanner

Konstruktörer

```
Scanner(String s)
Scanner(System.in) // scan from standard input
```

Metoder

```
boolean hasNext()
boolean hasNextInt()
boolean hasNextDouble()
boolean hasNextLine()
String next()
int nextInt()
double nextDouble()
String nextLine()
void close()
```

Klassen Double

Konstruktörer

```
Double(String s)
Double(double d)
```

Metoder

```
double doubleValue()
static double parseDouble(String s)
```

Klassen Integer

Konstruktörer

```
Integer(String s)
Integer(int d)
```

Metoder

```
int intValue()
static int parseInt(String s)
```

Klassen Math

Konstanter och metoder

```
static double PI
static double E
static double exp(double d)
static double log(double d)
static double sin(double d)
static double cos(double d)
static double random()
static int abs(int i)
static double abs(double d)
static int max(int i, int j)
static double max(double x, double y)
static int min(int i, int j)
static double min(double x, double y)
static double pow(double x, double y)
```

Läsa en fil

Exempel:

```
String filename = "input.txt";
FileReader reader = new FileReader(filename);
Scanner scanner = new Scanner(reader);
...
scanner.close();
reader.close();
```

OBS: `new FileReader(filename)` kan förorsaka `FileNotFoundException`.

Skriva en fil

Exempel:

```
String filename = "output.txt";
File file = new File(filename);
if (file.exists()) {
    System.out.println("The file '" + filename + "' exists!");
    return;
}
System.out.println("Creating '" + filename + "'");
PrintWriter output = new PrintWriter(file);
output.println("First line");
output.print("Second ");
output.println("and last line");
output.close();
```